

IN THE CLAIMS:

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) An optical disc storing an executable data structure for managing playback control of a data stream by an optical disc reproducing device, comprising:

an information file including a first playback indicator for managing an automatic playback of the optical disc when the optical disc is inserted into the optical disc reproducing device, the first playback indicator identifying a segment for execution at the automatic playback of the optical disc, the segment being included in a separate file from the information file, the first playback indicator indicating a name of the ~~identified~~ segment;

the separate file including the ~~identified~~ segment, the ~~identified~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

~~the playlist file launched by the navigation command~~, the playlist file including a playitem representing a playing interval in a clip of a data stream for the automatic playback; and

a stream file including the data stream.

2-5. (Cancelled)

6. (Previously Presented) The optical disc of claim 1, wherein the information file is stored in a main directory, which is a sub-directory of a root directory for the optical disc.

7-11. (Cancelled)

12. (Currently Amended) A method of recording a data structure for managing playback control of a data stream, comprising:

recording an information file on an optical disc, the information file including a first playback indicator for managing an automatic playback of the optical disc when the optical disc is inserted into an optical disc reproducing device, the first playback indicator identifying a segment for execution at the automatic playback of the optical disc, the segment being included in a separate file from the information file, the first playback indicator indicating a name of the ~~identified~~ segment;

recording the ~~identified~~ segment in the separate file on the optical disc, the ~~identified~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

recording the playlist file ~~launched by the navigation command~~ on the optical disc, the playlist file including a playitem representing a playing interval in a clip of a data stream for the automatic playback; and

recording a stream file including the data stream on the optical disc.

13. (Currently Amended) A method of reproducing a data structure for managing playback control of a data stream, comprising:

reproducing an information file from an optical disc, the information file including a first playback indicator for managing an automatic playback of the optical disc when the optical disc is inserted into an optical disc reproducing device, the first playback indicator identifying a segment for execution at the automatic playback of the optical disc, the segment being included in a separate file separate from the information file the first playback indicator indicating a name of the ~~identified~~ segment;

reproducing the separate file including the ~~identified~~ segment from the optical disc, the ~~identified~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

reproducing the playlist file from the optical disc ~~launched by the navigation command~~, the playlist file including a playitem representing a playing interval in a clip of a data stream for the automatic playback; and

reproducing a stream file including the data stream from the optical disc.

14. (Currently Amended) An apparatus for recording a data structure for managing playback control of an optical disc, comprising:

a pickup configured to record data on the optical disc; and

a controller operably coupled to the pickup to control the pickup to record an information file on the optical disc, the information file including a first playback indicator for managing an automatic playback of the optical disc when the optical disc is inserted into an optical disc reproducing device, the first playback indicator identifying a segment for execution at the automatic playback of the optical disc, the segment being included in a separate file from the information file, the first playback indicator indicating a name of the ~~identified~~ segment;

the controller configured to control the pickup to record the separate file including the ~~identified~~ segment on the optical disc recording medium, the ~~identified~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

the controller configured to control the pickup to record the playlist file on the optical disc ~~launched by the navigation command~~, the playlist file including a playitem representing a playing interval in a clip of a data stream for the automatic playback; and

the controller configured to control the pickup to record a stream file including the data stream on the optical disc.

15. (Currently Amended) An apparatus for reproducing a data structure for managing playback control of an optical disc, comprising:

a pickup configured to reproduce data recorded on the optical disc;

a controller operably coupled to the pickup to control the pickup to reproduce an information file from the optical disc, the information file including a first playback indicator for managing an automatic playback of the optical disc when the optical disc is inserted into an optical disc reproducing device, the first playback indicator identifying a segment for execution at the automatic playback of the optical disc, the segment being included in a separate file from the information file the first playback indicator indicating a name of the ~~identified~~ segment;

the controller configured to control the pickup to reproduce the separate file including the ~~identified~~ segment from the optical disc, the ~~identified~~ segment including at least one navigation command for launching a playlist file;

the controller configured to control the pickup to reproduce the playlist file from the optical disc, the playlist file including a playitem representing a playing interval in a clip of a data stream for the automatic playback; and

the controller configured to control the pickup to reproduce a stream file including the data stream from the optical disc.

16. (Previously Presented) The optical disc of claim 1, wherein the segment further includes navigation commands for initializing playback of the data stream and terminating playback of the data stream.

17. (Previously Presented) The method of claim 12, further comprising:
recording navigation commands for initializing playback of the data stream and terminating playback of the data stream in the segment.

18. (Previously Presented) The method of claim 13, further comprising:
reproducing navigation commands for initializing playback of the data stream and terminating playback of the data stream from the segment.

19. (Previously Presented) The apparatus of claim 14, wherein the controller is further configured to control the pickup to record navigation commands for initializing playback of the data stream and terminating playback of the data stream in the segment.

20. (Previously Presented) The apparatus of claim 15, wherein the controller is further configured to control the pickup to reproduce navigation commands for initializing playback of the data stream and terminating play back of the data stream from the segment.

21. (Previously Presented) The apparatus of claim 15, further comprising:

a source depacketizer configured to depacketize source packets into transport packets;

a de-multiplexer, operably coupled to the source depacketizer, configured to demultiplex the transport packets into at least one elementary stream; and

a decoder, operably coupled to the de-multiplexer, configured to decode the elementary stream to an original data stream to be displayed on a display.

22. (Previously Presented) The apparatus of claim 21, wherein the source depacketizer, the de-multiplexer, the decoder, and the controller are part of a video disk play system.

23. (Previously Presented) The optical disc of claim 1, further comprising:

a clip information file including timing information of the stream file, the clip information file and the stream file being separate files and having one to one correspondence.

24. (Previously Presented) The optical disc of claim 1, wherein the playitem is a pair of IN and OUT points corresponding to positions on a time axis of the clip of the data stream.

25. (Previously Presented) The method of claim 12, further comprising:

recording a clip information file including timing information of the stream file, the clip information file and the stream file being separate files and having one to one correspondence.

26. (Previously Presented) The method of claim 12, wherein the playitem is a pair of IN and OUT points corresponding to positions on a time axis of the clip of the data stream.

27. (Previously Presented) The method of claim 13, further comprising:

reading a clip information file including timing information of the stream file, the clip information file and the stream file being separate files and having one to one correspondence.

28. (Currently Amended) The method of claim 13, wherein the playitem is a pair of IN and OUT points corresponding to positions on a time axis of the clip of the data stream.

29. (Previously Presented) The apparatus of claim 14, wherein the controller is further configured to control the pickup to record a clip information file including timing information of the stream file, the clip information file and the stream file being separate files and having one to one correspondence.

30. (Currently Amended) The apparatus of claim 14, wherein the playitem is a pair of IN and OUT points corresponding ~~point~~ to positions on a time axis of the clip of the data stream.

31. (Previously Presented) The apparatus of claim 15, wherein the controller is further configured to control the pickup to read a clip information file including timing information of the stream file, the clip information file and the stream file being separate files and having one to one correspondence.

32. (Previously Presented) The apparatus of claim 15, wherein the playitem is a pair of IN and OUT points corresponding to positions on a time axis of the clip of the data stream.